

Global Recognition

GI Aqua Tech's Makkah project has won the prestigious Industrial Project of the Year at the 2024 Global Water Awards by Global Water Intelligence (GWI) & Global Water Summit. This award highlights the innovative Zero Waste technology that successfully treated 80,000 m³ of wastewater, achieving 100% reuse of both sludge and wastewater.



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GI Aqua Tech's solution for slaughterhouses

The meat processing industry, particularly slaughterhouses, generates significant wastewater containing pollutants like blood, feces, fats, and chemicals. Effective wastewater treatment is crucial to prevent environmental contamination and adhere to regulatory standards.

Project Overview:

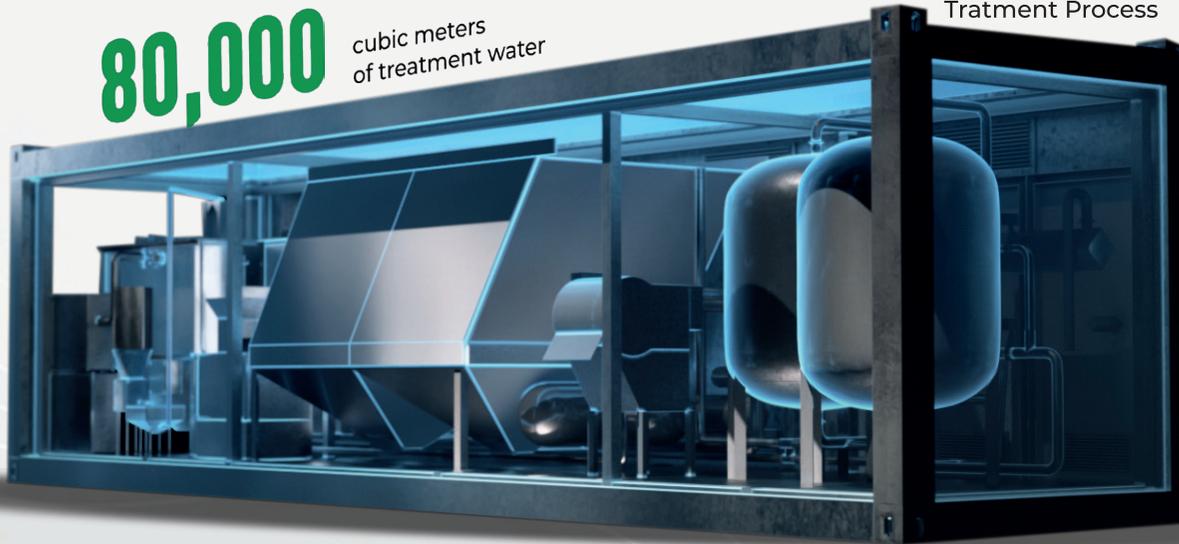
Objective: Address the treatment of 80,000 cubic meters of liquid waste during the Hajj season.

Technology: Utilizes G-NANO technology aiming for zero waste and 100% reuse, converting sludge into reusable materials.

Deployment: Mobile treatment stations housed in standard containers, operating on a plug-and-play basis.

20 min
Treatment Process

80,000 cubic meters
of treatment water



Key Challenges



Environmental and Health Risks: Untreated wastewater can contaminate water and soil



Challenges in Treatment: Elevated levels of organic matter make slaughterhouse wastewater difficult to treat



Financial cost: Slaughterhouse owners suffer from the Budgetary impact of wastewater treatment.

80%
Energy
consumption



Innovative Solutions

GI Aqua Tech's G-NANO System:



Efficiency and Cost-Effectiveness: Reduces Biochemical Oxygen Demand (BOD) by up to 90%, outperforming traditional methods.



Sustainability: Energy-efficient, low carbon footprint, and allows for resource recovery from sludge.

90%
spatial
requirements

GI Aqua Tech has partnered with:

1. The Royal Commission for Makkah City & Holy Sites.
2. National Center for Waste Management.
3. NCECKSA.
4. The National Water Company (NWC).
5. Kidana.
6. The Kingdom of Saudi Arabia Project For Utilization of Hady & Adahi.

to implement the G-NANO wastewater treatment system in one of Saudi Arabia's largest slaughterhouses.